



About the Mathematics in This Unit (page 1 of 2)

Dear Family,

Our class is beginning a new mathematics unit called *How Many Floors? How Many Rooms?* In this unit, students describe and represent ratios, use tables to represent and predict change, and work with numeric sequences as they construct, describe, and extend patterns.

Throughout this unit, we will be working toward the following goals:

BENCHMARKS/GOALS	EXAMPLE								
Explain what the numbers in a table represent in a constant ratio situation (involving ratios of 1:2, 1:3, 1:4, 1:5, and 1:6).	<table> <tr> <th>Total Number of Floors</th><th>Total Number of Rooms</th></tr> <tr> <td>1</td><td>3</td></tr> <tr> <td>2</td><td>6</td></tr> <tr> <td>3</td><td>9</td></tr> </table> <p>"I see that there are 3 rooms on each floor."</p> <p>"When there is another floor, you always add 3."</p> <p>"It's a counting-by-3s pattern."</p>	Total Number of Floors	Total Number of Rooms	1	3	2	6	3	9
Total Number of Floors	Total Number of Rooms								
1	3								
2	6								
3	9								

(continued)



About the Mathematics in This Unit (page 2 of 2)

BENCHMARKS/GOALS	EXAMPLE												
Complete and extend a table to match a situation involving a constant ratio.	<table border="1"> <thead> <tr> <th>Total Number of Floors</th><th>Total Number of Rooms</th></tr> </thead> <tbody> <tr> <td>1</td><td>5</td></tr> <tr> <td>2</td><td>10</td></tr> <tr> <td>3</td><td>15</td></tr> <tr> <td>4</td><td>?</td></tr> <tr> <td>5</td><td>?</td></tr> </tbody> </table> <p>If each floor has 5 rooms, how many rooms would there be if there were 6 floors?</p>	Total Number of Floors	Total Number of Rooms	1	5	2	10	3	15	4	?	5	?
Total Number of Floors	Total Number of Rooms												
1	5												
2	10												
3	15												
4	?												
5	?												
Extend a repeating pattern and determine what element of the pattern will be in a particular position (e.g., the 16th position) if the pattern keeps going.	<p>If this pattern continues, what color will the 12th square be? What color will the 15th square be?</p>												

More information and activities about this unit will be coming home with your child in the next few days.